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SP 42 (2008): Survey of screw threads [PGD 20: Engineering Standards]

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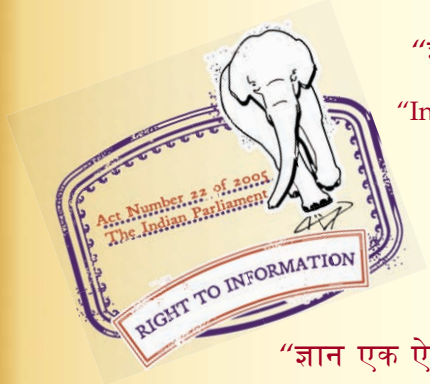

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भारतीय मानक

पेंच चूड़ियों का सर्वेक्षण

(पहला पुनरीक्षण)

Indian Standard

SURVEY OF SCREW THREADS

(First Revision)

ICS 21.040.01

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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Price Group 7

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Engineering Standards Sectional Committee had been approved by the Production and General Engineering Division Council.

This standard was first published in 1987 in view of need felt by Indian industry. In this revision, considerable amount of assistance has been derived from DIN 202 : 1999 'Screw threads — General plan' and various National Standards of UK, USA and Germany.

Indian Standard

SURVEY OF SCREW THREADS

(First Revision)

1 SCOPE

This standard lays down an overview of screw threads used either for general purposes or in special applications. Threads complying with standards being given in Table 1 and those complying with International Standards in Table 2. In Table 3 types of screw threads covered in National Standards of UK, USA and Germany are given.

2 REFERENCES

The standards given below contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	*Title*
554 : 1999/ ISO 7-1 : 1994	Pipe threads where pressure-tight joints are made on the threads — Dimensions, tolerances and designation (*fourth revision*)
2186 : 1985	ISO metric external screw threads for interference fit applications (*first revision*)
2643 : 2005/ ISO 228-1 : 2000	Pipe threads where pressure-tight joints are not made on the threads — Dimensions, tolerances and designation (*third revision*)
4218	ISO general purpose metric screw threads:
(Part 1) : 2001/ ISO 68-1 : 1998	Basic profile (*second revision*)
(Part 2) : 2001/ ISO 261 : 1998	General plan (*second revision*)
(Part 3) : 1999/ ISO 724 : 1993	Basic dimensions (*second revision*)
(Part 4) : 2001/ ISO 262 : 1998	Selected sizes for screws, bolts and nuts (*second revision*)
4695	General purpose knuckle threads:
(Part 1) : 2003	Profiles and nominal sites (*second revision*)
(Part 2) : 2003	Deviations and tolerances (*second revision*)
4696	Dimensions for metric buttress threads
(Part 1) : 2004	Thread profile (*second revision*)
(Part 2) : 2004	Pitch diameter combination (*second revision*)
(Part 3) : 2004	Basic dimensions (*second revision*)
(Part 4) : 2005	Tolerancing system (*second revision*)
5957 : 2003/ ISO 1478 : 1999	Screw threads for thread forming tapping screws — Dimensions (*second revision*)
7008	ISO metric trapezoidal screw threads
(Part 1) : 1999/ ISO 2901:1993	Basic profile and maximum material profile (*second revision*)
(Part 2) : 1988/ ISO 2902 : 1977	Pitch diameter combinations (*first revision*)
(Part 3) : 1988/ ISO 2904 : 1977	Basic dimensions (*first revision*)
(Part 4) : 1999/ ISO 2903 : 1993	Tolerances (*second revision*)
8788 : 2002	Dimensions for metric external taper and internal parallel screw threads (*second revision*)
9449	Dimensions for tyre valve threads:
(Part 1) :1980	Threads 5V1, 5V2, 6V1 and 8 V1
(Part 2) : 1985	Threads 9V1, 10V2 and 12V1
(Part 3) : 1985	Threads, 10V1, 15V1, 17V1 and 20V1
10980 (Part 1) : 1984	Specification for aerospace bolts and nuts (MJ threads): Part 1 Basic profile
11698 (Part 1) : 2004	ISO Miniature screw threads: Part 1 Basic profiles
12186 : 1987	Tolerances for ISO metric trapezoidal screw threads for lead and feed screw assemblies
12818 : 1992	Unplasticized PVC screen and casing pipes for basic/tubewell — Specification (*first revision*)
14962	ISO general purpose metric screw threads — Tolerances:
(Part 1) : 2001/ ISO 965-1 : 1998	Principles and basic data
(Part 2) : 2001/ ISO 965-2 : 1995	Limits of sites for general purposes external and internal screw threads — Medium quality
(Part 3) : 2001/ ISO 965-3 : 1998	Deviations for constructional screw threads

1—149 BIS/ND/08

Table 1 Type of Screw Threads with Their Corresponding Indian Standards (Wherever Available)
(*Clauses* 1 *and* 3)

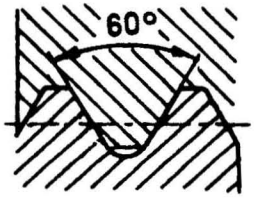
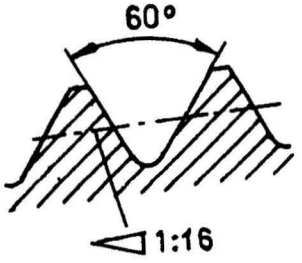
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application		Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)		(7)
ISO miniature screw threads		S	S 0.8	0.3 mm to 0.9 mm	Watches and precision engineering		IS 11698 (Part 1)
ISO metric screw thread (single-start or multi-start)		M	M 8	1 mm to 68 mm	General purpose screw threads (coarse pitch)		IS 4218 (Parts 1 to 4)
			M24 × 4 P2				
			M6 × 0.75[1)] M8 × 1 — LH[1)]	1mm to 1 000 mm	To be used where pitch of coarse thread is too large		
			M24 × 4 P2				
			M 64 × 4	64 mm and 76 mm	External barrel threads		
			M30 × 2 — 4H5H	1.4 mm to 355 mm	Aerospace		
ISO metric screw thread with transition tolerance			M10 Sn4 M10 Sk6	3 mm to 150 mm	For stud ends	Non-sealing	IS 2186
			M10 Sn4 sealing	3 mm to 150 mm		Sealing	
ISO metric screw thread (helical coil thread for inserts)		EG M	EG M 20	2 mm to 52 mm	Helical coil threads (coarse and fine pitch) for wire thread inserts		—
ISO metric screw thread for interference fits		MFS	MFS 12 × 1.5	5 mm to 16 mm	For interference fits in aluminium cast alloys (coarse and fine pitch)		—
Metric tapered external screw thread		M	M 30 × 3 Taper M 30 × 2 Taper (short)	6 mm to 60 mm	Screw plugs and lubricating nipples		IS 8788

Table 1 (*Continued*)

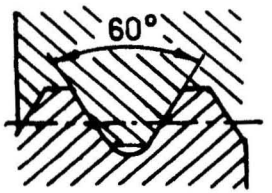
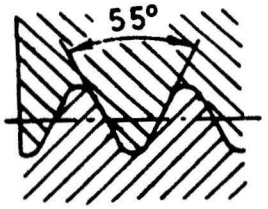
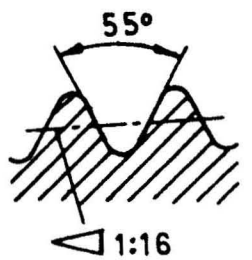
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
MJ thread		MJ	MJ 6 × 1 — 4h6h MJ 6 × 1 — 4H5H	1.6 mm to 39 mm	Aerospace	IS 10980 (Part 1)
Parallel pipe thread where pressure-tight joints are not made on the threads		G	G 1 1/2 A G 1 1/2 B	1/16 to 6	External screw threads for pipes, pipe joint assemblies and valves	IS 2643
			G 1 1/2		Internal screw threads for pipes, pipe joint assemblies and valves	
			G 3/4	3/4, 1, 2	External barrel threads	—
		—	5 1/2	5 1/2	External screw threads for tank wagons	—
		Rp	Rp 1/2	1/16 to 6	Internal screw threads for threaded pipes and fittings	IS 554
			Rp 1/8	1/8 to 1 ½	Internal screw threads for compression couplings	—
Tapered pipe thread where pressure-tight joints are made on the threads		R	R 1/2	1/16 to 6	External screw threads for threaded pipes and fittings	IS 554
			R 1/8 — 1	1/8 to 1 ½	External screw threads for compression couplings	—

Table 1 (*Continued*)

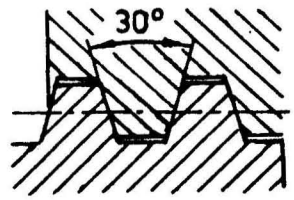
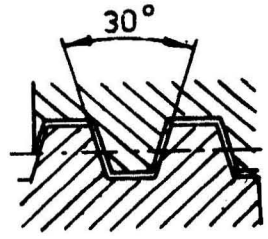
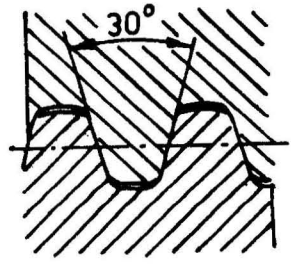
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ISO metric (single-start or multi-start) trapezoidal screw thread		Tr	Tr 40 × 7 Tr 40 × 14 P 7	8 mm to 300 mm	General purpose screw threads	IS 7008 (Parts 1 to 4)
Flat metric (single-start or multi-start) trapezoidal screw thread			Tr 40 × 7 Tr 40 × 14 P 7			
Trapezoidal (single-start or multi-start) screw thread with clearance			Tr 48 × 12	48 mm	Rail vehicles	—
			Tr 40 × 16 P 8	40 mm	Lead Screw & Nuts	IS 12186
			Tr 32 × 1.5	10 mm to 56 mm	Drawback collets	—
Rounded trapezoidal screw thread			Tr 40 × 5	26 mm to 80 mm	Rail vehicles	—

Table 1 (*Continued*)

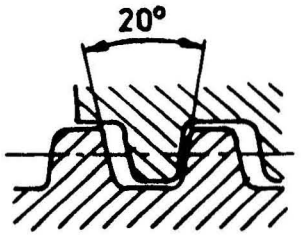
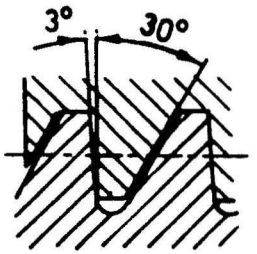
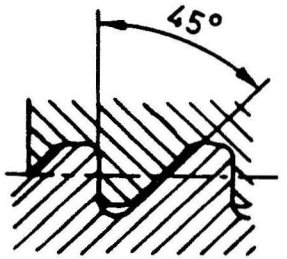
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Trapezoidal screw thread		KT	KT 22	10 mm to 50 mm	Plastic containers	IS 7008 (Parts 1 to 4)
Metric (single-start or multi-start) buttress thread		S	S 48 × 8 S 40 × 14 P 7	10 mm to 640 mm	Used to withstand unilateral loading	IS 4696 (Parts 1 to 4)
45° buttress thread			S 630 × 20	100 mm to 1 250 mm	Hydraulic presses	—

Table 1 (*Continued*)

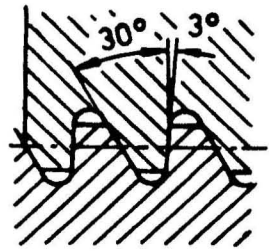
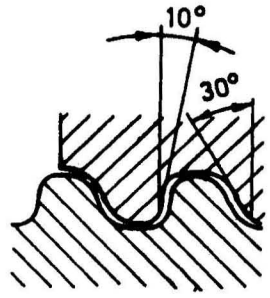
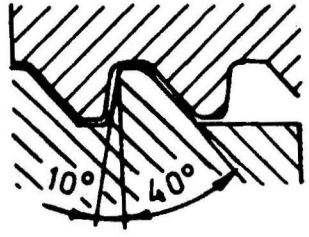
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Buttress thread			S 25 × 1.5	6 mm to 40 mm	Mining	IS 4696 (Parts 1 to 4)
			S 22	10 mm to 50 mm	Packaging glass and plastic containers	—
		GS	GS 22			
		KS	KS 22			
			KS 22	10 mm to 50 mm	Packaging plastic containers	—

Table 1 (*Continued*)

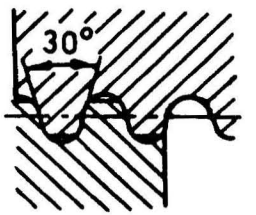
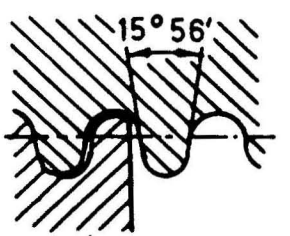
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Parallel (single-start or multi-start) knuckle thread		Rd	Rd 40 × 1/6 Rd 40 × 1/3 P 1/6	8 mm to 200 mm	General purpose screw threads	IS 4695 (Parts 1 and 2)
Parallel knuckle thread			Rd 40 × 5	10 mm to 300 mm	Mining	—
			Rd 80 × 10	50 mm to 320 mm	Lifting hooks	—
			Rd 70	20 mm to 100 mm	Steel sheet components and associated couplings	—
Parallel knuckle thread with clearance		Rd	Rd 59 × 7	34 mm to 79 mm	Rail vehicles	—
			Rd 59 × 7, left-hand			

Table 1 (*Continued*)

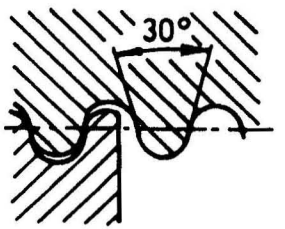
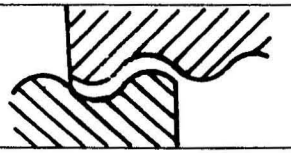
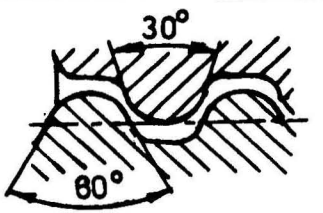
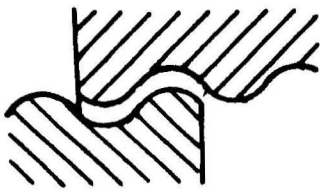
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Parallel knuckle thread with clearance		Rd	Rd 50 × 7	50 mm	Rail vehicles	—
			Rd 50 × 7, left-hand			
Parallel knuckle thread			Rd 40 × 1/7	40 mm, 80 mm and 110 mm	Respiratory equipment	—
		GL	GL 25 × 3	8 mm to 45 mm	Glass containers	—
Edison thread		E	E 27	14 mm 16 mm 18 mm 27 mm 33 mm	D-type fuses; E14 and E27 screw threads also for lamp caps and holders	—
			E 5	5 mm	Lamp caps	—
			E 10	10 mm		
			E 40	40 mm		
		—	28 × 2	28 mm and 40 mm	External screw threads for lamp holders and internal screw threads for lamp shade carrier rings	—

Table 1 (*Continued*)

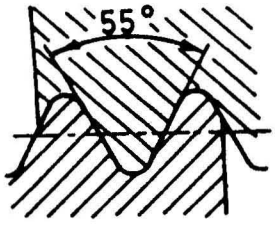
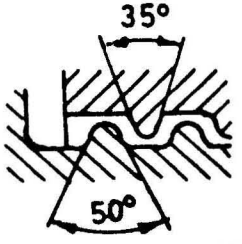
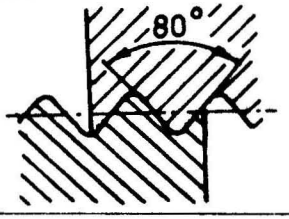
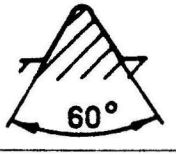
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Parallel Whitworth thread		W	W 3/16	3/16	Electrical engineering: screw-in gauge rings D II and D III	—
Glass screw thread		Glas g	Glas g 74.5	74.5 mm 84.5 mm 99 mm 123.5 mm 158 mm 188 mm	Electrical engineering: cover glasses and caps	—
Steel conduit screw thread		Pg	Pg 21	7 mm to 48 mm	Electrical engineering	—
Tapping screw thread		ST	ST 3.5	1.5 mm to 9.5 mm	Tapping screws	—
Wood screw thread		—	4	1.6 mm to 20 mm	Wood screws	—

Table 1 (*Continued*)

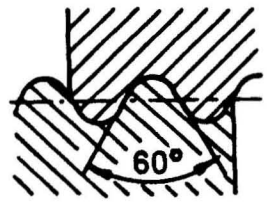
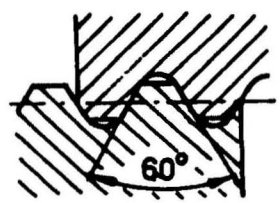
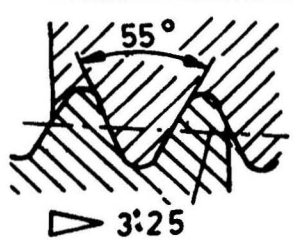
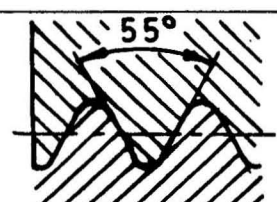
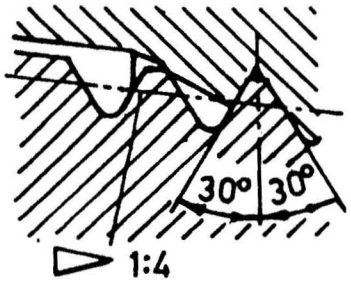
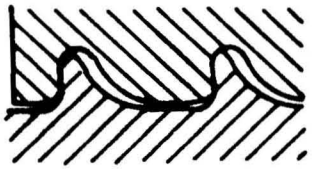
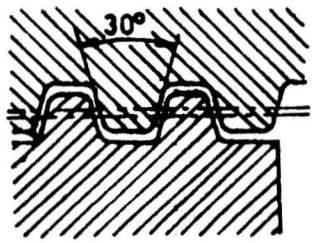
Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Cycle thread		FG	FG 9.5	2 mm to 34.8 mm	Bicycles and motor-bicycles	—
		—	1.375 24 6H/6g	1.375	Used to assemble freewheels on bicycle hubs	—
Valve screw thread		Vg	Vg 12	5 mm to 12 mm	Tyre valves	—
Taper Whitworth thread		E	E 17 con	19.8 mm	Screwed sockets of gas cylinder valves	—
		W	W 28.8 × 1/14 keg	19.8 mm 28.8 mm 31.3 mm		
Parallel Whitworth thread			W 21.8 × 1/14	21.8 mm 24.32 mm 24.4 mm	Connections of gas cylinder valves	—
			W 80	80 mm	Protective caps for gas cylinder valves	—
RMS thread		RMS	RMS	20.32 mm	Microscope objectives	—

Table 1 (*Concluded*)

Type of Thread	Profile (Diagram)	Symbol	Designation (Example)	Range of Nominal Sizes	Application	Reference to Indian Standard
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Tapered drill pipe thread		Gg	Gg 4 ½	3 ½ 4 1/2 5 1/2	Deep drilling and mining	—
Screw thread for bone screws and nuts		HA	HA 4.5	1.5 mm 2 mm 2.7 mm 3.5 mm and 4.5 mm	Bone screws and nuts for surgical implants	—
		HB	HB 4.5	4 mm and 6.5 mm		
Tubewell Threads		DN	DN 100	40 mm to 400 mm	Tubewell Threads	IS 12818

[1] Designation to be found in IS 14962 (Part 1).

IS No.	*Title*
(Part 4) : 2001/ ISO 965-4 : 1998	Limits of sizes for hot-dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing
(Part 5) : 2001/ ISO 965-5 : 1998	Limits of sizes for hot-dip galvanized internal screw threads to mate with external screw threads with maximum size of tolerance position h before galvanizing

3 DESIGNATION

The thread designation is generally to comprise the symbol denoting the type of thread and the value of the nominal diameter on nominal size, followed where required by the value of the pitch or number of threads, tolerance, number of start, taper and whether the thread is a left-hand thread. In the case of a number of screw threads conforming to this standard, the designation is preceded by the number.

It should be noted that when using Tables 1, 2 and 3 only the latest edition of each standard referred to shall apply.

Table 2 ISO Screw Threads and Corresponding Indian Standards

(*Clauses* 1 *and* 3)

Sl No.	International Standard	Title	Corresponding Indian Standard
(1)	(2)	(3)	(4)
i)	ISO 7-1 : 1994	Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation	IS 554 (Identical)
ii)	ISO 68-1 : 1998	ISO general purpose screw threads — Basic profile — Part 1: Metric screw threads	IS 4218 (Part 1) (Identical)
iii)	ISO 68-2 : 1998	ISO general purpose screw threads — Basic profile — Part 2: Inch screw threads	—
iv)	ISO 228-1 : 2000	Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation	IS 2643 (Identical)
v)	ISO 261 : 1998	ISO general purpose metric screw threads — General plan	IS 4218 (Part 2) (Identical)
vi)	ISO 262 : 1998	ISO general purpose metric screw threads — Selected sizes for screws, bolts and nuts	IS 4218 (Part 4) (Identical)
vii)	ISO 263 : 1973	ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0.06 to 6 inch	—
viii)	ISO 724 : 1993	ISO general purpose metric screw threads — Basic dimensions	IS 4218 (Part 3) (Identical)
ix)	ISO 965-1 : 1998	ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data	IS 14962 (Part 1) (Identical)
x)	ISO 965-2 : 1998	ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external internal screw threads — Medium quality	IS 14962 (Part 2) (Identical)
xi)	ISO 965-3 : 1998	ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional screw threads	IS 14962 (Part 3) (Identical)
xii)	ISO 965-4 : 1998	ISO general purpose metric screw threads — Tolerances — Part 4: Limits of sizes for hot dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing	IS 14962 (Part 4) (Identical)
xiii)	ISO 965-5 : 1998	ISO general purpose metric screw threads — Tolerances — Part 5: Limits of sizes for internal screws threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position h before galvanizing	IS 14962 (Part 5) (Identical)
xiv)	ISO 1478 : 1999	Tapping screw threads	IS 5957
xv)	ISO 2901 : 1993	ISO metric trapezoidal screw threads — Basic profile and maximum material profiles	IS 7008 (Part 1) (Identical)
xvi)	ISO 2902 : 1977	ISO metric trapezoidal screw threads — General plan	IS 7008 (Part 2) (Identical)
xvii)	ISO 2903 : 1993	ISO metric trapezoidal screw threads — Tolerances	IS 7008 (Part 4) (Identical)
xviii)	ISO 2904 : 1977	ISO metric trapezoidal screw threads — Basic dimensions	IS 7008 (Part 3) (Identical)
xix)	ISO 3161 : 1999	Aerospace — UNJ threads — General requirements and limit dimensions	—
xx)	ISO 4570 : 2002	Tyre valve threads	IS 9449 (Part 1) IS 9449 (Part 2) IS 9449 (Part 3)
xxi)	ISO 5408 : 1983	Cylindrical screw threads — Vocabulary	—
xxii)	ISO 5835 : 1991	Implants for surgery — Metal bone screw with hexagonal drive connection, spherical undersurface of head, asymmetrical thread — Dimensions	—
xxiii)	ISO 5855-1 : 1999	Aerospace — MJ threads — Part 1: General requirements	IS 10980 (Part 1)

Table 2 (*Concluded*)

Sl No.	International Standard	Title	Corresponding Indian Standard
(1)	(2)	(3)	(4)
xxiv)	ISO 5864 : 1993	ISO inch screw threads — Allowances and tolerances	—
xxv)	ISO 6698 : 1989	Cycles — Screw threads used to assemble freewheels on bicycle hubs	—
xxvi)	ISO 8038-1 : 1997	Optics and optical instruments — Screw thread for microscopes objectives and related nose pieces — Part 1: Screw thread type RMS (4/5 in × 1/36 in)	—
xxvii)	ISO 8038-2 : 2001	Optics and optical instruments — Screw thread for microscopes objectives and related nose pieces — Part 2: Screw thread type M 25 × 0.75 mm	—

Table 3 Types of Screw Threads Covered in National Standards of UK, USA and Germany
(*Clauses* 1 *and* 3)

Type of Screw Thread	Symbol	Designation (Example)	Standard	Country of Origin
(1)	(2)	(3)	(4)	(5)
Unified screw threads	UNM	0.80 UNM	ANSI/ASME-B1.10M-1997	USA
	UN UNC UNF UNEF UNS	1/4-20 UNC-2 A or 0-250-20 UNC-2A	ANSI/ASME-B1.1-2003 BS 1580-1&2-1962 BS 1580-3-1965	USA UK
	UNR UNRC UNRF UNRS	7/16-20 UNRF-2A or 0.4375-20 UNRF-2A	ANSI B1.1-1989 ANSI/ASME: B1.1-2003	USA
	UNJ UNJC UNJF UNJEF	0.250-28 UNJF-3A	BS A 346-2000	UK
Whitworth thread	B.S.W. B.S.F.	1/4 In 20 B.S.W.	BS 84-1956	UK
BA screw thread	BA	11 BA	BS 93-1951	UK
Pipe thread, parallel	NPSC NPSM NPSL NPSH	1/8-27 NPSC	ANSI B 1.20.1-1983	USA
	Dry seal NPSF Dry seal NPSI	1/8-27 NPSF	ANSI B 1.20.3-1976	USA
	G	G 1 ¼	BSENISO 228-1	UK
	BSP.F	1/16-6	BSENISO 228-1	
	R_p	R_p ½	BS 21-1985	
	BSP.P1	11 NBSP.P1 1/16-6	BS 21-1985	
Pipe thread, taper	NPT NPTR	3/8-18 NPT	ANSI B1.20.1-1983	USA
	NPTF	1/8-27 Dry seal NPTF	ANSI 1.20.3-1976	
	Dry seal NPTF Dry seal PTF-SAE Short	1 1/8-27 NPTF-1	ANSI B 1.20.3-1976	
	R	R 11/2	BS 21-1985	UK
	R_c	Rc ½		

Table 3 (*Concluded*)

Type of Screw Thread	Symbol	Designation (Example)	Standard	Country of Origin
(1)	(2)	(3)	(4)	(5)
Trapezoidal thread	BSP Tr. Ext.	1 IN BSP Tr. 1/16-6	BS 21-1985	UK
	Int.	1/16-24	BS 21-1985	
	ACME	1 ¾-4 ACME-2G	ANSI/ASME B1.5-1997	USA
			BS 1104-1957	UK
	STUB-ACME	0.500-20 STUB-ACME	ANSI/ASME B1.9-1973	USA
Buttress thread	Butt	2.5 BS Buttress	ANSI/ASME B1.9-1973	USA
	Buttress	2.0 BS Buttress thread 8 tpl medium class	BS 1657-1950	UK
API threads (threads of American Petroleum Institute for Petroleum Industries)	CSG LCSG BCSG XCSG TBG UP TBG LP	4 1/2 API TBG	ANSI/API RP B-1988	USA
	NC ROTARY REG ROTARY REG LH ROTARY FH ROTARY IF ROTARY	API 4 IF THD	ANSI/API Spec. 7-1990	
Metric screw threads Interference fit with sealing (external)	M	M 30 Sp 4 ditch	DIN 13 & 14 belblatt 15	Germany
Metric screw threads with large clearance		M 36	DIN 2510 Tell 2-1971	
Metric MJ screw threads	MJ	MJ 6 × 1 — 4h6h	DIN ISO 5855-2-1984	
		MJ 6 × 1 — 4H5H		
Buttress threads 45° for machine tools	S	S 630 × 20	DIN 2781 -1990	
Buttress threads 0.8 mm to 2.0 mm pitch for slit bolts		S 25 × 1.5	DIN 20401-2004	
Trapezoidal threads for plastic containers	KT	KT 22	DIN 6063-2-2004	
Buttress threads for plastic containers	KS	KS 22	DIN 6063 - Part 1 - 2004	
Knuckle threads for glass containers	GL	GL 25 × 3	DIN 168-1- 1998	
Knuckle threads	Rd	Rd 70	DIN 7273 Tell 1-1970	
		Rd 59 × 7	DIN 262 Tell 1 - 1973	
		Rd 59 × 7 Left Hand		
Round screw threads		Rd 50 × 7 Rd 50 × 7 Left Hand	DIN 264 Tell 1-1973	
Respiratory protective devices and driving apparatus — Standard threads		Rd 110 × 1/3	DIN 3182 Tell 1-1996	
Edison threads for D type fuses	E	E 27	DIN 40400-1981	
		28 × 2	DIN EN ISO 1470-1994	
Steel conduit threads	Pg	Pg 21	DIN 40430- 1971	
Sheet metal screw threads	ST	ST 3.5	DIN EN ISO 1478-1998	
Wood screw thread	—	DIN 7998-4	DIN 7998-1975	
Screw threads for drill tubes exceeding 100 mm for large hole boring in mining	Gg	Gg 4 ½	DIN 20314- 1990	

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